

Replacement Sheet



ABCC11	~~~~~MTR	KRTYWPNS	GGLVNRGDI	GDDMVSGLIY	KTYTLQDQPW	SQQRNPEAP	GRAAVPPWCK	YDAALRTMIP	FRPKRFPAP	QPLDNAGLFS
ABCC12	~~~~~				~~~MVGEOPY	LISDLQQR	RRSFAE...R	YDPSLKMIP	VRPCARLAP	NPVDDAGLFS
ABCC5	MKDIDIGKEY	IIPSPGYRSV	RERTSTSGTH	RDREDSKFR	TRPLECQDAL	ETARAEGLS	LDASMSQLR	ILDEHPKCK	YHGHISALKP	IRTSKHO..

ABCC11	YLTVSWLTP	.MIQSLRSRL	DENTIPPLSV	HDASDKNVQR	LHRLWEEVS	RRGIEKASVL	LVMRLRFQTR	LIFDALLGIC	FCIASVLGPI	LIIPKILEYS
ABCC12	FATFSWLTPV	.MVKGYRQRL	TVDTPLPLST	YDSSDTNAKR	FRVLWDEEVA	RVGPEKASLS	HVVWKFORTR	VLMDIVANIL	CIIMAAIGPV	ILIHQILQOT
ABCC5	CMTFSWLSSL	ARVAHKKGE	SMEDVWSLSK	HESSDVNCR	LERLWQELN	EVGPDAAASL	RVVWIFCRTR	LILSIVCLMI	TQLAGFSGPA	FMVKHLETT

ABCC11	VGLGFAFLFS	ECVKSLSFSS	SWIINQRTAI	RFRAAVSSFA	FEKLIQFKSV	IHTSGEATS	FFTGDVNVFL	EGVCYGPVL	ITCASLVIGS	ISSYFIIGVT
ABCC12	IGLCIALFAT	EFTKVFFWAL	AWAINYRTAI	RLKVALSTLV	FENLVSEKTL	THISVGEVLN	ILSSDSYSLE	EALFCPLPA	TIPILMVCA	AYAFFILGPT
ABCC5	LLLVLGLLT	ELVRSWLSAL	TWALNYRTGV	RLRGAILTMA	FKKILKLN	KEKSLGELN	ICSNDQORME	EAAVGSILA	GGPVVAILG	LYNVILGPT

ABCC11	VFPLAVFMT	MAVKAQHST	EVSDORIRVT	SEVLTICIKL	KMTWEKPPA	KIMEDLRKE	RKLEKGLV	QSLTSITLPI	IPTVATAVW	LIHTSLKLE
ABCC12	FIPVQFMMAK	LMSAFRRSAI	LVTDKRVQTM	NEFLTCIRLI	KMYAWEKSE	NTIQDIRRE	RKLEKAGV	QSGNSALAPI	VSTIAIVLTL	SCHILRRKL
ABCC5	EYPMWPFASR	LTAFFRRKCV	AATDERVQKM	NEVLTYYIKF	KMYAWKAPS	QSVQKIREEE	RRILEKAGYF	QGITVGVAPI	VVVIASVVT	SVHMTLGFDE

ABCC11	SINLLRLSVF	FVPIAVKGLT	NKSAMVRFK	KFFLOESPVF	VYOTLQDPK	ALVFEETLS	WQ....QT	CPGIV....	.....NGAL	EB...ERNCH
ABCC12	MENVKMFSTA	ILPFSIKAMA	EANVSLRRMK	KILIDKSPPS	YITQPEDPDT	VILLANATLT	WEHEASRKST	PKKLQ....	.....NOKR	HICKKQKSEA
ABCC5	VENSMTFALK	VTPFSVKSLG	EASVAVDRFK	SLFIMEEVHM	IKNKPASPHI	KIEMKNATLA	WDSHSSIQN	SPKITPKMKK	DKRASRCKE	KVRQLQRTCH

ABCC11	AL.....G	PEEEGNS...	.....LGPEL	HKINLVVSKG	MMLGVCNCTG	SGKSSLSAIS	LEEMHLLGGS	VGVQGSLAYV	POQAWIVSGN	IRENITMGGA
ABCC12	AT.....G	PEEESDS...	.....LKSVE	HSISEFVVRK	KILGICGNVG	SGKSSLSAAL	LGOMQLQKGV	VAVNGTLAYV	SQQAWIFHGN	VRENILFGKE
ABCC5	LLLOSDEPSP	PEEEGKHII	LGLRLQRTU	HSIDEIQEG	KLVGICGSVG	SGKTSLSAIS	LGOMTLGGS	IAISGTFAYV	AQQAWILNAT	LRONILFGKE

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ABCC11	RTPGCCACID	MVPFTACLOI	GERGLNLSSG	QKORISLARA	VYSDRQIYLL	DDPLSAVDAH	VGKHIFEECI	KKTLRGKTVV	LVTQLOYLE	FCHQIILLEN
ABCC12	RVCGLQKDLG	NLPYGLDTEI	GERGLNLSSG	QKORISLARA	VYSDRQIYLL	DDPLSAVDAH	VGKHIFEECI	KKTLRGKTVV	LVTQLOYLE	SCDEVILLE
ABCC5	NSSCBLPDLA	ILPSSDLTEI	GERGANLSSG	QKORISLARA	LYSDRSYIHL	DDPLSALDAH	VGKHIFNSAI	RKHLKSKTYL	FTHQLOQYIV	DCDEVIFMKE

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ABCC11	ELMOKKGYA	OLIQKM....H....KEAT	SDMLQDTAKI	AERPKVE.SQ	ALATSLEESL	NGNAVPEHQ	TQEEEMEESG	LSRWVYHHYI
ABCC12	ELMEERGRYA	KLIHNLRLGLO	FKDPEHLYNA	AMVEAFKESP	AEREEDAGIN	VLAONEKDE	GKESETGSEF	VDTKVPEHQ	IQTESPOEQT	VTKVYHTYI
ABCC5	ELMNLNGDYA	TIFNNL..LG	ETPPVEINSK	KETSCSQKKS	QDKPKTKGSV	KKEKAVKPEE	G.....	.....QL	VQLEEKQGS	VPWSYGVYI

ABCC11	IIFFFVVLIV	FLTIFSFWWL	SYWLEQSGST	NSSRESNGTM	ADLGNIADNR	QLSFYQVYVG	LNALLICVG	VCSSGIFTKV	TRKASTALN	KLENKVRCP
ABCC12	FTVFLFLIMI	GSAAFSNWWL	GLWLDKGRM	TCCPOGNRTM	CEVGAVLADI	QOHVYQWYVT	ASMFVFLVFG	VTKGFVFTKT	TLMASSSLHD	TVFDKILKS
ABCC5	VIMALFMLNV	GSTAFSTWWL	SYWIKQCSGN	TTVTRGNETS	VS.DSMKDN	HMQYIASIYA	LSMAVMILK	AIRGVVEVKG	TLRASSRLHD	ELFRILRSP

ABCC11	RLNCFACGLD	EQLDQLLPIF	SEQFLVLSLM	VIAVILLIVSV	LSPYHLMGA	IIMVICFIYY	MMFKKAIGVF	KRLNYSRSP	LFSHILNSIQ	GLSSIHVYCK
ABCC12	RLMNRFSKDM	DELQDLRPPH	AENFLQOQFM	VVFILVILAA	VFPVAVLWVA	SLAVGFFIIL	RIFHRGVQEL	KKVENVSRSP	WFTHITSSMQ	GLGITHAYCK
ABCC5	RLMNRFSKDM	DEVQDLRPFQ	AEMFIQNVIL	VFFCVGMILG	VFPWFLVAVG	PLVILFSLH	IVSRVILREI	KRLDNITQSP	FLSHITSSIQ	GLATHAYCK

ABCC11	LTDQONNYLL	LFLSSTRWMA	LRLIMTNLV	TLAVALFVAF	GISTPYSFK	VMANVILQEL	ASSFQATARI	GLETEAQFTA	VERILOQYMK	CVSEAPLHME
ABCC12	.....HLL	YFNCALRWFA	LRMDVLMNII	TFTVALLVTE	SFSSISTSSK	GLSLSYIIQL	SGELQVCVRT	GTETQAKFTS	VELLREYIST	CVPECTHPLK
ABCC5	LLDNQAPFF	LETAMRWLA	VRDLISIAL	ITFTGLMIVE	MHCQIPPAYA	GLAISYAVQI	TGLFQFTVRL	ASETEARFTS	VERINHYIKT	LSLEAPARIK

ABCC11	HGEIIFODYH	MKYRDNTPTV	LHGINLTIRG	HEVVGIVGRT	GSCKSSLGMA	LFLRLVPMAG	RILIDGVQIC	SIGLEDLRSK	LSVIPQDPVL	LSGTIRFNLD
ABCC12	CGETIFRDYQ	MRYRDNTPLV	LDSLMNIQS	QOTVGVGRT	GSCKSSLGMA	LFLRLVPMAG	TIFIDEVDIC	ILSLEDLRK	LTVIPQDPVL	FVGTVRYNLD
ABCC5	EGEVTEENAE	MRYRENPLV	LKKVSFTIKP	KEKIGIVGRT	GSCKSSLGMA	LFLRLVLSGG	CIKIDGVRS	DIGIADLRSK	LSIIPQEPVL	FSGTVRSNLD

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ABCC11	WDALERTFLT	KATSKFPKKI	HTDVVENGON	FSVGERQLLC	TARAVLRNSK	ILILDEATAS	IDMETDTLIQ	RTIREAFQGC	TVLVIAGRVT	TVLNCDHILV
ABCC12	WQVLERTFMR	DTIMKLEPKL	QAEVTENGON	FSVGERQLLC	VARALLRNSK	ILILDEATAS	MDSKTDTLVQ	NTIKDAFKGC	TVLTIARREN	TVLNCDHILV
ABCC5	WDALERTHMK	ECTAQLPLKL	ESEVMENGON	FSVGERQLLC	TARALLRHCK	ILILDEATAA	MDTETDILIQ	ETIREAFADC	TMLTIARREN	TVLGSDRIMV

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ABCC11	RPEVLRKKPG	SLFAALMATA	TSSLR+~~~	SEQ ID NO:47
ABCC12	KPEVLAEKPD	SAFAMLLAAE	VRL+~~~~~	SEQ ID NO:33
ABCC5	TPSVLSNDS	SREYAMFAAA	ENKVAVKG+	SEQ ID NO:48

FIG. 1

Replacement Sheet

[illegible]

FIG. 1A



Replacement Sheet

ABCC11	ITFFVVLIV	FLTIFSTWML	SYWLEQSGST	NSSRESNGTM	ADLGNADNP	QLSFYQLVYG	INALLLICVG	VCSGIFTKV	TRKASTALHN	KLFNKVERCP	MSFDDTIRIG
ABCC12	FTVELELLMI	GSAAFSNWML	GLWLDKGRM	TCGPOGNRTM	CEVGAVLADI	GQHYQWVYT	ASMVFMLVFG	VTKGFVETKT	TLMASSSLHD	TVFDKILKSP	MSFDDTPTG
ABCC5	VIMALEMLNV	GSTAFSTWML	SYWIKQSGN	TTVTRGNETS	VS.DSMKDNP	HMOVYASIXA	LSMAVMILTK	ATRGWFEVKG	TIRASSRLHD	EJFERRILRSP	MKFDDTPTG
ABCC11	RLNCFAGDL	EQLDQLPIF	SEOFVLVLSM	VIAMVILVSV	LSPYILIMGA	IIMVICFTYV	MMEKKAICVF	KRIENYSRSP	LFSHILNSIQ	GUSIIHVYCK	TEDETSQFKR
ABCC12	RLMNRFSKDM	DELVDRLPEH	AENFLOQFDM	WVFILVILAA	VFPAVLJWA	SLAVGFFIUL	RIEHRGVOEL	KKVENVSRSR	WETHITSSMO	GUGIIHAYCK	KESCITY...
ABCC5	RLNRESKDM	DEVDVRLPEQ	AEMFIQNVIL	VFEFCVGMIA	VEPWELVAVG	PEVILESVEH	IVSRVLIREL	KRLDNITQSR	FLSHITSSIQ	GUATIHAYNK	GQEFELHRYQE
ABCC11	ITDAONNYLL	LELSSTRWMA	LRUEIMTNLV	TLAVALEVAF	GISSTRYSFK	VMANVIVLOL	ASSFOAPARI	GLETEAQFTA	VERILOVMKM	CVSEAPLHME	GTSCPOGWPO
ABCC12	.....HLI	YFNCALRWFA	LRMDVLMNIT	TFVTVALLVTI	SFSSISTSSK	GLSLSYIIQL	SGLLOQCVRT	GTETOAKFTS	VELLEYIST	CVPECTHPIK	VGTCCKDWPS
ABCC5	ILDDNQAPFF	LETCAWRWLA	VRDLISIAL	ITTTGIMIVI	MHGQIPRAYA	GLAISYAVOL	TGLFOFTVRL	ASETEARFTS	VERINHYIKT	LSLEAPARIK	NKAPSPDWPO
ABCC11	HGEIIFQDYH	MKYRDNTPTV	UHGINLTIRG	HEVVGIVGRT	CSGKSSSLGMA	LFRIVEPMAG	RULIDGVDIC	SIGLEDEERSK	LSVIPDDPVL	LSGTIRENLD	PEDRHTDOQL
ABCC12	CGEITERDYQ	MRYRDNTPLV	LDNLNINIOS	GOTVGIVGRT	CSGKSSSLGMA	LFRIVEPASG	TIFIDEVDIC	ILSLEDLRTK	LTVIPDDPVL	FVGTVRNLD	PEESHTDEML
ABCC5	EGEVTFENAE	MRYRENIPLV	TKKVSFTIKP	KEKIGIVGRT	CSGKSSSLGMA	LFRIVELSGG	CIKIDGYRIS	DIGIADLRSK	LSITIPOEPVL	FSGTVRSNLD	PENQYTEDQI
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ABCC11	WDALERTELT	KATSKPEKKL	HTDWENGN	FSVGEROLLC	VARALLRNSK	ILIDEATAS	IDMETDILIO	RTIREAFQGC	TVLVIAGRVT	TVLNCDHILV	MNGKQWVEFD
ABCC12	WQVLERTEMR	DTIMKLEPEK	QAEVTENGEM	FSVGEROLLC	VARALLRNSK	ILIDEATAS	MDSKDTLVQ	NTIKDAFKGC	TVLTIAHRLN	TVLNCDHILV	MNGKQWVEFD
ABCC5	WDALERTHMK	ECTAQLEPLKI	ESEVMENGDN	FSVGEROLLC	VARALLRNSK	ILIDEATAS	MDTETDILIO	ETIREAFQGC	TMLTIAHRLH	TVLGSDRIMV	LAQGVVEFD
ABCC11	RPEVIRKKPG	SLFAALMATA	TSSLR*~	SEQ ID NO:47	B						
ABCC12	KPEVIAEKPD	SAFAMLEAAE	VRL*~	SEQ ID NO:33	C						
ABCC5	TPSVILSND	SRFYAMFAAA	ENKVAVG*	SEQ ID NO:48							

FIG. 1B